

IN THE CLAIMS:

Please amend claims 1, 2, 4-8, 10, '11, and' 14, as set forth below.

1 1. (Currently Amended) A method of communication over an InfiniBand
2 (IB) network comprising:
3 receiving data from an application;
4 determining whether the application is a legacy application or a new application;
5 creating a socket;
6 associating the socket with ~~an AF_INET~~ a first address family and performing a mapping
7 between a socket API application programming interface (API) and ~~an SDP~~
8 sockets direct protocol (SDP) layer if the application is a legacy application; and
9 associating the socket with ~~an AF_IB~~ a second address family and performing a mapping
10 between the socket API and an IB verb if the application is a new application.

1 2. (Currently Amended) The method of claim 1, further comprising
2 providing the data to a channel adapter for transmission over ~~an IBA fabric~~ the IB
3 network.

1 3. (Original) The method of claim 1, wherein the application is a new
2 application, the act of performing a mapping between the socket API and an IB verb
3 comprising performing a mapping between the socket API and the SDP layer.

1 4. (Currently Amended) A system comprising:
2 a channel adapter coupled with an ~~IBA fabric~~ InfiniBand (IB) network, the channel
3 adapter to receive data from ~~applications~~ an application;
4 a socket API application programming interface (API) to ~~provide an interface with the~~
5 ~~applications~~ create a socket; and
6 ~~an InfiniSock~~ a second layer to provide an interface between the socket API and the
7 channel adapter, the ~~InfiniSock~~ second layer ~~including an AF_INET to~~
8 determine whether the application is a legacy application or a new
9 application,
10 associate the socket with a first address family and an AF_IB address
11 ~~family, the InfiniSock layer to provide~~ perform a mapping between
12 the socket API and ~~an SDP~~ a sockets direct protocol (SDP) layer
13 ~~for if the application is a legacy applications application~~, and
14 associate the socket with a second address family and perform a mapping
15 between the socket API and an IB verb ~~for if the application is a~~
16 new ~~applications~~ application.

1 5. (Currently Amended) The system of claim 4, ~~further comprising a socket,~~
2 ~~the socket associated with one of the AF_INET address family and the AF_IB address~~
3 ~~family~~ the channel adapter to transmit the data to the IB network.

1 6. (Currently Amended) The system of claim 4, the ~~InfiniSeek~~ second layer
2 to provide a mapping between the socket API and the SDP layer for a new application.

1 7. (Currently Amended) An article of manufacture comprising:
2 a machine accessible medium providing content that, when accessed by a machine,
3 causes the machine to
4 receive data from an application;
5 determine whether the application is a legacy application or a new application;
6 create a socket;
7 associate the socket with ~~an AF_INET~~ a first address family and perform a
8 mapping between a socket ~~API~~ application programming interface (API)
9 and ~~an SDP sockets direct protocol (SDP)~~ layer if the application is a
10 legacy application; and
11 associate the socket with ~~an AF_IB~~ a second address family and perform a
12 mapping between the socket API and an ~~IB~~ InfiniBand (IB) verb if the
13 application is a new application.

1 8. (Currently Amended) The article of manufacture of claim 7, wherein the
2 content, when accessed, further causes the machine to provide the data to a channel
3 adapter for transmission over an ~~IBA fabric~~ IB network.

1 9. (Original) The article of manufacture of claim 7, wherein the application
2 is a new application and the content, when accessed, further causes the machine to
3 perform a mapping between the socket API and the SDP layer.

1 10. (Currently Amended) A network comprising:
2 an ~~IBA~~ InfiniBand (IB) fabric;
3 a first system coupled with the ~~IBA~~ IB fabric, the first system including
4 a channel adapter coupling the first system with the ~~IBA~~ IB fabric, the channel
5 adapter to receive data from ~~applications~~ an application resident on the
6 first system,
7 a socket API application programming interface (API) to ~~provide an interface~~
8 ~~with the applications~~ create a socket, and
9 ~~an InfiniSoek~~ a second layer to provide an interface between the socket API and
10 the channel adapter, the ~~InfiniSoek~~ second layer ~~including an AF_INET to~~
11 determine whether the application is a legacy application or a new
12 application,
13 associate the socket with a first address family and ~~an AF_IB~~
14 ~~address family, the InfiniSoek layer to provide~~ perform a
15 mapping between the socket API and ~~an SDP~~ sockets direct
16 protocol (SDP) layer ~~for if the application is a legacy~~
17 ~~applications~~ application, and

18 associate the socket with a second address family and perform a
19 mapping between the socket API and an IB verb ~~for~~ if the
20 application is a new applications application; and
21 a second system coupled with the ~~IBA~~ IB fabric.

1 11. (Currently Amended) The network of claim 10, the ~~applications of the~~
2 ~~first system including a legacy application and a new application~~ channel adaptor to
3 transmit the data over the IB fabric to the second system.

1 12. (Original) The network of claim 10, the second system including a legacy
2 application.

1 13. (Original) The network of claim 10, the second system including a new
2 application.

1 14. (Currently Amended) The network of claim 10, the second system
2 comprising:
3 a channel adapter coupling the second system with the ~~IBA~~ IB fabric, the channel adapter
4 to receive data from ~~applications~~ an application resident on the second system;
5 a socket API to ~~provide an interface with the applications~~ create a socket; and
6 ~~an InfiniSock~~ a second layer to provide an interface between the socket API and the
7 channel adapter, the ~~InfiniSock~~ second layer ~~including an AF_INET to~~
8 determine whether the application is a legacy application or a new
9 application.
10 associate the socket with a first address family and an AF_IB address
11 family, the InfiniSock layer to provide perform a mapping between
12 the socket API and an SDP layer ~~for~~ if the application is a legacy
13 ~~applications~~ application, and
14 associate the socket with a second address family and perform a mapping
15 between the socket API and an IB verb ~~for~~ if the application is a
16 new ~~applications~~ application.